

FISHERIES AND OCEANS CANADA

SOUTH COAST ASSESSMENT BULLETIN

CREEL SURVEY DATA REVIEW PACKAGE

Area 20 (East) August 2019



Prepared By:

South Coast Salmon Stock Assessment Section

Thursday 27th August, 2020



Fisheries and Oceans
Canada

Pêches et Océans
Canada



Table 1: Numbers of Interviews conducted contributing to the area by day and access site.

| Date | Day Type | Becher Bay | | Flemming | | Jock's Dock (Crab Shack) | | Pedder Bay | |
|-------------|----------|------------|----|----------|----|--------------------------|----|------------|----|
| | | AM | PM | AM | PM | AM | PM | AM | PM |
| 29 Jul 2019 | Midweek | | | | | | | | 7 |
| 30 Jul 2019 | Midweek | | | | | | | | |
| 31 Jul 2019 | Midweek | | 2 | | | | | | |
| 01 Aug 2019 | Midweek | | | | | | | | |
| 02 Aug 2019 | Midweek | | | | | | | | |
| 03 Aug 2019 | Weekend | | | | 5 | | | | |
| 04 Aug 2019 | Weekend | | | | | | 17 | | |
| 05 Aug 2019 | Weekend | | | | | | | | |
| 06 Aug 2019 | Midweek | | | | | 10 | | | |
| 07 Aug 2019 | Midweek | | | | | | | | 6 |
| 08 Aug 2019 | Midweek | | 5 | | | | | | |
| 09 Aug 2019 | Midweek | | | | | | | | |
| 10 Aug 2019 | Weekend | 11 | | | | 20 | | | |
| 11 Aug 2019 | Weekend | | | | | | | | |
| 12 Aug 2019 | Midweek | | | | | | | | |
| 13 Aug 2019 | Midweek | | | | | | | | |
| 14 Aug 2019 | Midweek | | | | | | | | |
| 15 Aug 2019 | Midweek | | | | | | 11 | | |
| 16 Aug 2019 | Midweek | | | | | | | | |
| 17 Aug 2019 | Weekend | | | | | | | | |
| 18 Aug 2019 | Weekend | | | | 1 | | | 31 | |
| 19 Aug 2019 | Midweek | | | | 1 | 19 | | | |
| 20 Aug 2019 | Midweek | | 5 | | | | | | |
| 21 Aug 2019 | Midweek | | | | | | | | |
| 22 Aug 2019 | Midweek | | | | | | | | |
| 23 Aug 2019 | Midweek | | | | | | | | |
| 24 Aug 2019 | Weekend | | | | | | 10 | | 17 |
| 25 Aug 2019 | Weekend | | | | | | | | |
| 26 Aug 2019 | Midweek | | | | | | | | |
| 27 Aug 2019 | Midweek | | | | | | | | |
| 28 Aug 2019 | Midweek | | | | | | | 21 | |
| 29 Aug 2019 | Midweek | | | | | | 12 | | |
| 30 Aug 2019 | Midweek | | | | | | | | 17 |
| 31 Aug 2019 | Weekend | | | 2 | | | | | 18 |
| 01 Sep 2019 | Weekend | | 15 | | | | | | |
| 02 Sep 2019 | Weekend | | | | | | | | |
| 03 Sep 2019 | Midweek | | | | | | | | 9 |

Table 2: Daily tally of interviews, catch and effort.

| Date | Day | Average Fishing Conditions | Interviews & Log Trips | Chinook | Coho | Sockeye | Halibut | Observed Fishing | Flight Time | Expanded Fishing |
|-------------|---------------------|----------------------------|------------------------|---------|------|---------|---------|------------------|-------------|------------------|
| 29-Jul-2019 | Monday | frequent whitecaps | 9 | | 1 | | | | | |
| 30-Jul-2019 | Tuesday | | 1 | | | | | 29 | 0927 | 57 |
| 31-Jul-2019 | Wednesday | calm/rippled | 3 | | 1 | | | | | |
| 01-Aug-2019 | Thursday | | 2 | | 1 | | | 222 | 0928 | 438 |
| 02-Aug-2019 | Friday | | 4 | 6 | | | | | | |
| 03-Aug-2019 | Saturday | calm/rippled | 9 | 6 | | | | 343 | 0927 | 474 |
| 04-Aug-2019 | Sunday | choppy | 20 | 25 | 2 | | | | | |
| 05-Aug-2019 | Monday (B.C. Day) | | 0 | | | | | | | |
| 06-Aug-2019 | Tuesday | choppy | 11 | 6 | | | | | | |
| 07-Aug-2019 | Wednesday | choppy | 8 | 4 | | | | | | |
| 08-Aug-2019 | Thursday | frequent whitecaps | 6 | 5 | | | | 109 | 0928 | 215 |
| 09-Aug-2019 | Friday | | 3 | 2 | | | | | | |
| 10-Aug-2019 | Saturday | calm/rippled | 32 | 34 | 7 | | | 236 | 0927 | 326 |
| 11-Aug-2019 | Sunday | | 1 | 1 | | | | | | |
| 12-Aug-2019 | Monday | | 3 | 6 | 1 | | | | | |
| 13-Aug-2019 | Tuesday | | 2 | 4 | | | | | | |
| 14-Aug-2019 | Wednesday | | 2 | 2 | | | | 189 | 0938 | 373 |
| 15-Aug-2019 | Thursday | choppy | 14 | 12 | 2 | | 1 | | | |
| 16-Aug-2019 | Friday | | 1 | 1 | | | | | | |
| 17-Aug-2019 | Saturday | | 1 | 5 | | | | | | |
| 18-Aug-2019 | Sunday | choppy | 36 | 27 | 3 | | | | | |
| 19-Aug-2019 | Monday | calm/rippled | 22 | 39 | 1 | | | | | |
| 20-Aug-2019 | Tuesday | calm/rippled | 8 | 10 | | | | | | |
| 21-Aug-2019 | Wednesday | | 0 | | | | | | | |
| 22-Aug-2019 | Thursday | | 1 | 1 | 1 | | | 228 | 0929 | 449 |
| 23-Aug-2019 | Friday | | 1 | 3 | | | | | | |
| 24-Aug-2019 | Saturday | frequent whitecaps | 28 | 21 | 12 | | | | | |
| 25-Aug-2019 | Sunday | | 0 | | | | | | | |
| 26-Aug-2019 | Monday | | 1 | 3 | 1 | | | | | |
| 27-Aug-2019 | Tuesday | | 1 | 1 | | | | | | |
| 28-Aug-2019 | Wednesday | calm/rippled | 23 | 11 | 8 | | | | | |
| 29-Aug-2019 | Thursday | frequent whitecaps | 13 | 14 | 1 | | | | | |
| 30-Aug-2019 | Friday | choppy | 17 | 6 | | | | 162 | 0931 | 319 |
| 31-Aug-2019 | Saturday | calm/rippled | 21 | 9 | 5 | | | | | |
| 01-Sep-2019 | Sunday | calm/rippled | 16 | 10 | | | | 284 | 1027 | 430 |
| 02-Sep-2019 | Monday (Labour Day) | | 1 | 1 | | | | | | |
| 03-Sep-2019 | Tuesday | calm/rippled | 9 | | | | | | | |
| | Totals | choppy | 143 | 136 | 16 | | 1 | 182* | | 359* |
| | Totals | choppy | 148 | 128 | 29 | | | 290* | | 400* |

* Average number of boats Observed and Expanded

Table 3: Simple area based cpue (catch per boat trip) expansion.

| Day Type | Average Expanded Boats | Number of Days | Total Estimated Effort | CPUE | | | | Retained | | | |
|----------|------------------------|----------------|------------------------|---------|--------|---------|---------|----------|------|---------|---------|
| | | | | Chinook | Coho | Sockeye | Halibut | Chinook | Coho | Sockeye | Halibut |
| Midweek | 359 | 21 | 7539 | 0.9510 | 0.1120 | | 0.0070 | 7170 | 844 | | 53 |
| Weekend | 400 | 10 | 4000 | 0.8650 | 0.1960 | | | 3460 | 784 | | |

Table 4: Recent years estimates of retained catch and effort.

| Year | Month | Total Effort | Chinook Kept | Coho Kept | Sockeye Kept | Halibut Kept |
|----------|--------|--------------|--------------|-----------|--------------|--------------|
| 2014 | August | 9305 | 3552 | 2311 | 1505 | 24 |
| 2015 | August | 9723 | 11388 | 1802 | 148 | 19 |
| 2016 | August | 8726 | 5486 | 2054 | | 150 |
| 2017 | August | 9046 | 7170 | 838 | 17 | 99 |
| 2018 | August | 9029 | 8702 | 572 | 4894 | 49 |
| 2019 | August | 11070 | 8320 | 1497 | 0 | 67 |
| 5-Yr Avg | August | 9166 | 7260 | 1515 | 1641 | 68 |

Table 5: Sport Head Recovery Review.

| Species | Creel Marked Catch | Creel Mark Rate | Creel Submission Rate | iRec Marked Catch | iRec Mark Rate | iRec Submission Rate | Sport Head Recoveries |
|---------|--------------------|-----------------|-----------------------|-------------------|----------------|----------------------|-----------------------|
| Coho | 1712 | 94% | 15% | 1237 | 87% | 21% | 256 |
| Chinook | 1743 | 12% | 50% | 2394 | 18% | 37% | 876 |

Table 6: Guided Proprtions Review.

| Data Source | Interviews / Angler Days | Guided Proportion |
|------------------|--------------------------|-------------------|
| Creel Interivews | 812 | 11% |
| iRec Anglers | 25466 | 11% |
| iRec Responses | 521 | 4% |

Figure 1: Proportion of each day's fishing by hour.

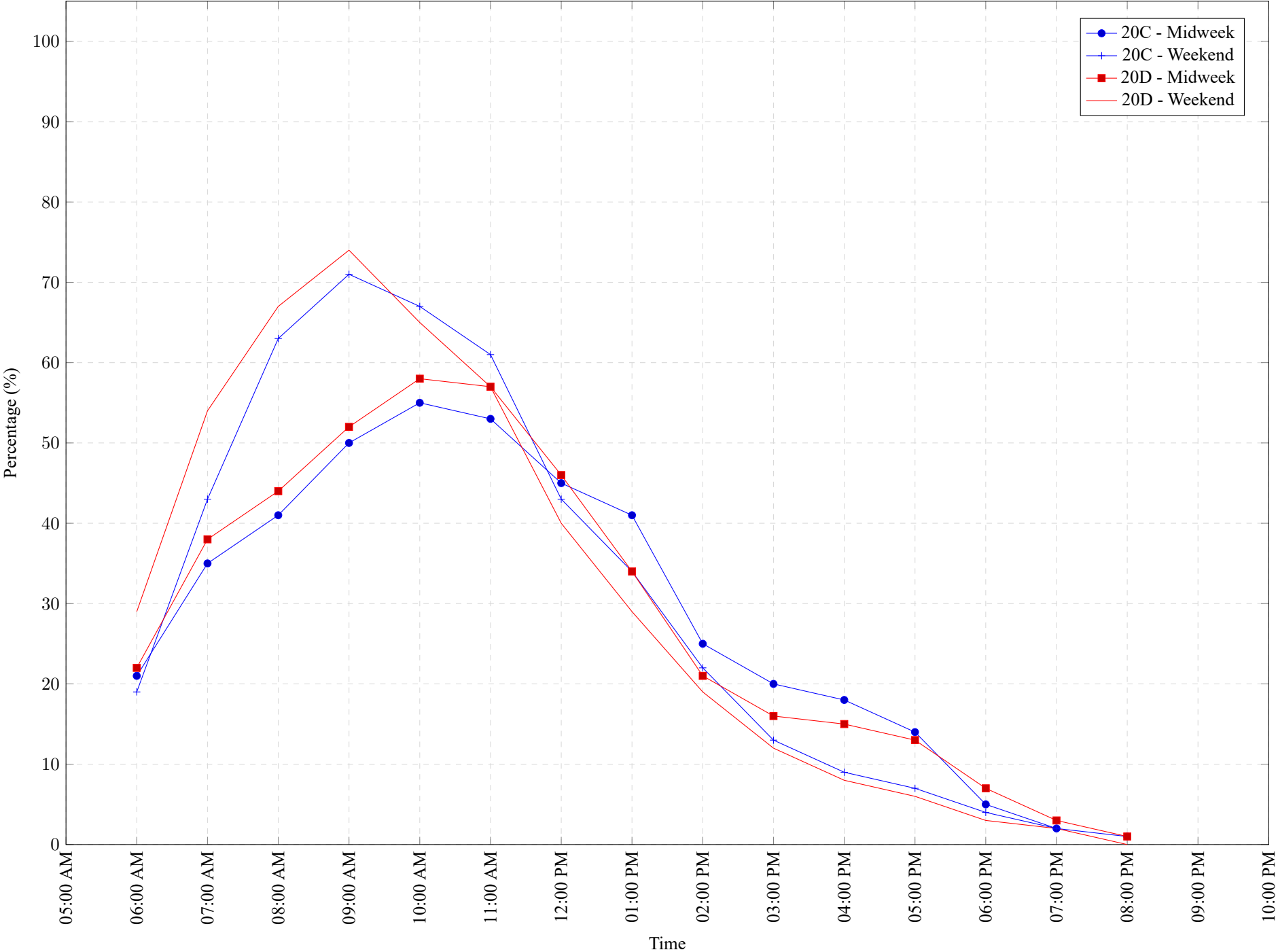


Table 7: Proportion of each day's fishing by hour.

| Areas | Day Type | 6:00 AM | 7:00 AM | 8:00 AM | 9:00 AM | 10:00 AM | 11:00 AM | 12:00 PM | 01:00 PM | 02:00 PM | 03:00 PM | 04:00 PM | 05:00 PM | 06:00 PM | 07:00 PM | 08:00 PM | 09:00 PM | 10:00 PM |
|-------|----------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 20C | Midweek | 21% | 35% | 41% | 50% | 55% | 53% | 45% | 41% | 25% | 20% | 18% | 14% | 5% | 2% | 1% | 0% | 0% |
| 20C | Weekend | 19% | 43% | 63% | 71% | 67% | 61% | 43% | 34% | 22% | 13% | 9% | 7% | 4% | 2% | 0% | 0% | 0% |
| 20D | Midweek | 22% | 38% | 44% | 52% | 58% | 57% | 46% | 34% | 21% | 16% | 15% | 13% | 7% | 3% | 1% | 0% | 0% |
| 20D | Weekend | 29% | 54% | 67% | 74% | 65% | 57% | 40% | 29% | 19% | 12% | 8% | 6% | 3% | 2% | 0% | 0% | 0% |

Table 8: Daily Fishing Conditions.

| Date | Day Type | Becher Bay | Flemming | Jock's Dock (Crab Shack) | Pedder Bay |
|-------------|----------|--------------------|--------------------|-----------------------------|--------------------|
| 29 Jul 2019 | Midweek | calm/rippled | | | frequent whitecaps |
| 30 Jul 2019 | Midweek | | | | |
| 31 Jul 2019 | Midweek | | | | |
| 01 Aug 2019 | Midweek | | | | |
| 02 Aug 2019 | Midweek | calm/rippled | | choppy | |
| 03 Aug 2019 | Weekend | | | | |
| 04 Aug 2019 | Weekend | | | | |
| 05 Aug 2019 | Weekend | | | | |
| 06 Aug 2019 | Midweek | frequent whitecaps | | choppy | choppy |
| 07 Aug 2019 | Midweek | | | | |
| 08 Aug 2019 | Midweek | | | | |
| 09 Aug 2019 | Midweek | | | | |
| 10 Aug 2019 | Weekend | calm/rippled | | calm/rippled | |
| 11 Aug 2019 | Weekend | | | | |
| 12 Aug 2019 | Midweek | | | | |
| 13 Aug 2019 | Midweek | | | | |
| 14 Aug 2019 | Midweek | | | choppy | |
| 15 Aug 2019 | Midweek | | | | |
| 16 Aug 2019 | Midweek | | | | |
| 17 Aug 2019 | Weekend | | | | |
| 18 Aug 2019 | Weekend | | frequent whitecaps | | choppy |
| 19 Aug 2019 | Midweek | | | | |
| 20 Aug 2019 | Midweek | | | | |
| 21 Aug 2019 | Midweek | | | | |
| 22 Aug 2019 | Midweek | calm/rippled | | | |
| 23 Aug 2019 | Midweek | | | | |
| 24 Aug 2019 | Weekend | | | | |
| 25 Aug 2019 | Weekend | | | | |
| 26 Aug 2019 | Midweek | | | | |
| 27 Aug 2019 | Midweek | | | | |
| 28 Aug 2019 | Midweek | | | | |
| 29 Aug 2019 | Midweek | | | | |
| 30 Aug 2019 | Midweek | calm/rippled | | frequent whitecaps | choppy |
| 31 Aug 2019 | Weekend | | | | |
| 01 Sep 2019 | Weekend | | | | |
| 02 Sep 2019 | Weekend | | | | |
| 03 Sep 2019 | Midweek | | | | calm/rippled |